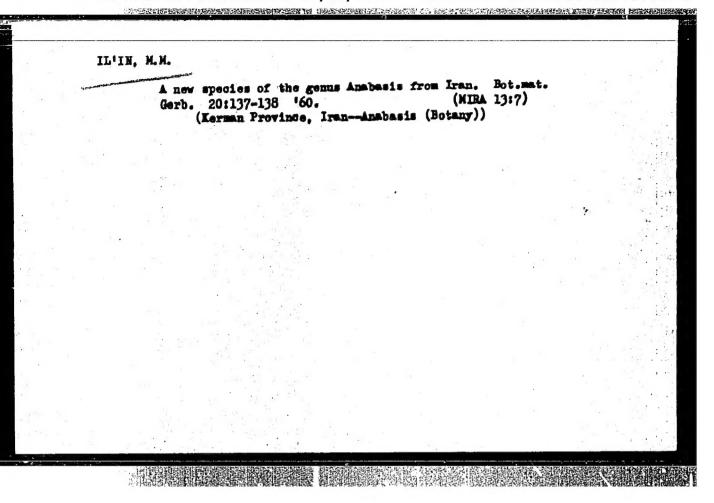
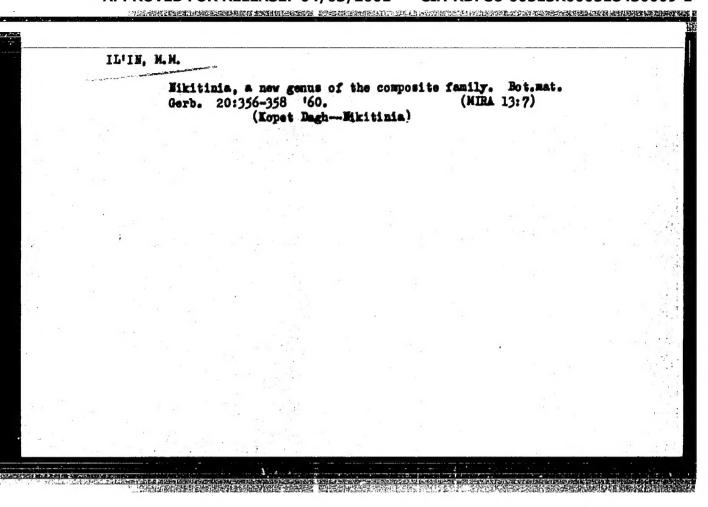
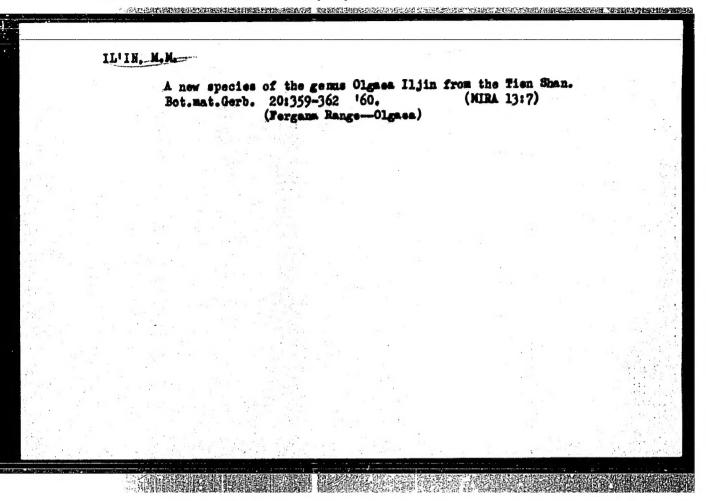
VASIL'YEV, Viktor Nikolayevich; IL'IN, M.M., prof., doktor biolog.nauk, otv.red.; VIKHEEV, S.D., Fed. izd-va; BOCHEVER, V.T., tekhn.red.

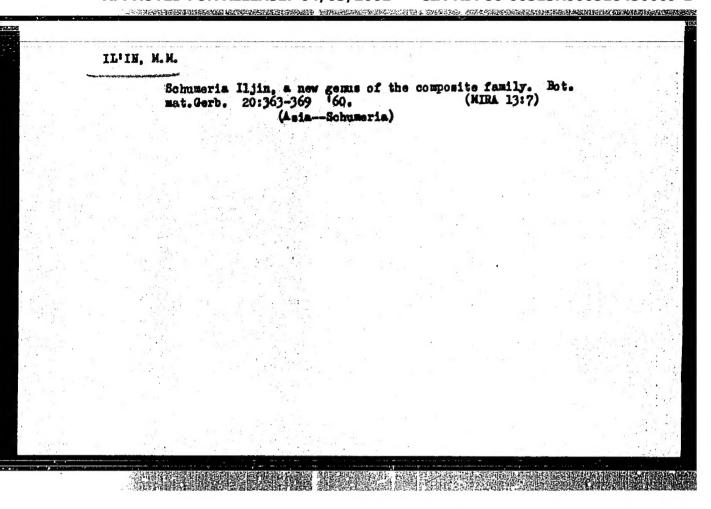
[Water chestnut and outlook for its cultivation in the U.S.S.R.]
Vodianci orekh i perspektivy ego kul'tury v SSSR. Moskva, Isd-vo
Akad.nsuk SSSR, 1960. 99 p.

(Water chestnut)









AFANAS 'YEV, K.S.; BOCHANTSEV, V.P.; VASIL'CHENKO, I.T.; GORSHKOVA, S.G.;

IL'IN, M.M.; KIRPICHNIKOV, M.E.; KNORRING, O.E.; KUPRIYANOVA, L.A.;

PORED IMOVA, Ye.G.; POLYAKOV, P.P.; PUTARKOVA, A. I.; SMOL'YANINOVA, L.A.;

FEDOROV, An.A.; TSVETKOVA, L.I.; TSVELEV, N.N.; SHISHKIN, B.K.;

KOMAROV, V.L., akademik, glavnyy red.; BOEROV, red.toma; SHISHKIN, B.K.;

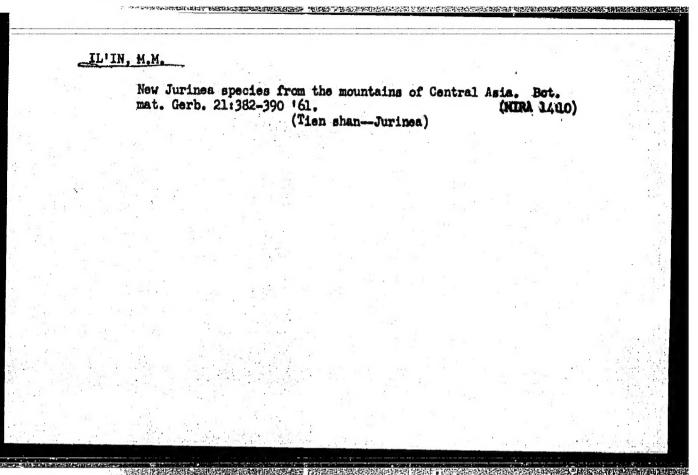
red.isd.; SMIRNOVA, A.V., tekhm.red.

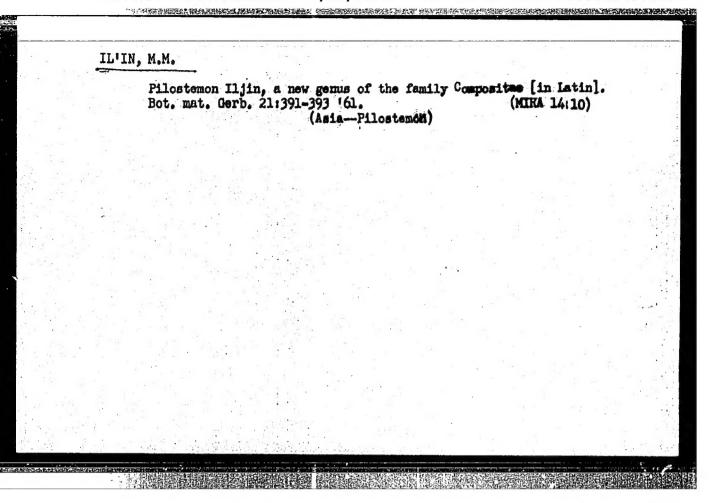
[Flora of the U.S.S.R.] Flora SSSR. Moskva, Isd-vo Akad.nauk

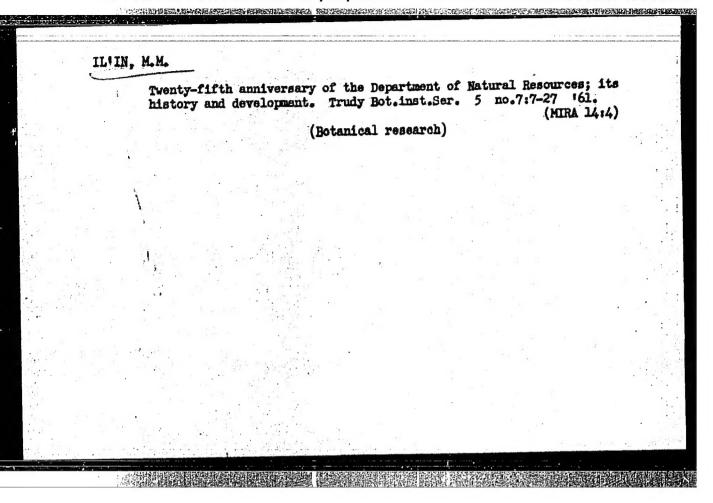
SSSR. 1961. 938 p. (Flora SSSR, vol. 26). (MIRA 15:2)

1. Chlen-korrespondent AN SSSR (for Shishkin).

(Compositae)







Oh the 70th birthday and 35th annivermary of scientific activities of Viktor Nikolaevich Vasil'ev. Bot. zhur. 46 no.12:1842-1846 D '61. (MIRA 15:1)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad. (Vasil'ev, Viktor Nikolaevich, 1890-)

BOBROV, Ye.G., doktor biolog.nauk, prof.; BOCHANTSEV, V.P.;
LL'IN, M.M.; LINCHEVSKIY, I.A.; LIPSHITS, S.Ju.;
SERGITEVSKAYA, Ye.V.; CHERNEYA, O.V.; CHERPEPANOV, S.K.;
YUZEPCHUK, S.V.; SHISHKIN, B.K., red.toms; SMIRNOVA, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR, Moskva, Izd-vo.
Akad.nauk SSSR, 1962. 757 p. (Flora SSSR, vol.27).(MIRA 15:11)

1. Chlen-korrespondent AN SSSR (for Shishkin).

(DICOTTLEDONS)

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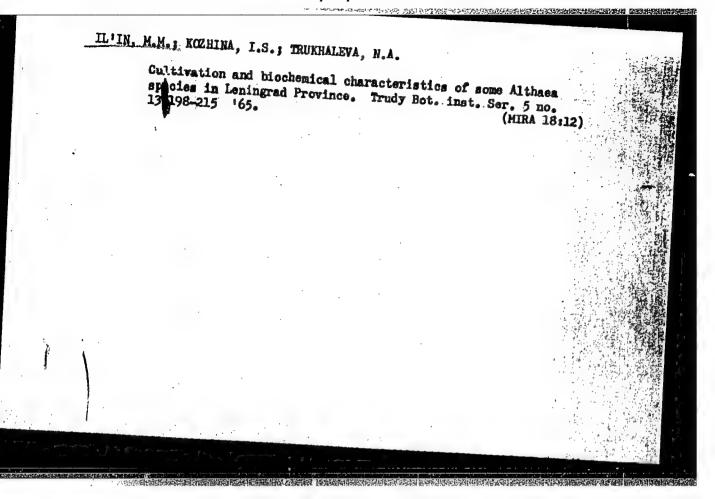
BOLOTINA, F.Ye.; GAMBARYAN, Kh.P.; DENISOVA, G.A.; DUBROVINA, L.I.;
KOZHINA, I.S.; KYURKCHAN, V.N.; MAKAROVA, T.I.; PAVLOVA,
U.G.; REZVETSOV, O.A.; SMIRNOVA, V.V.; SURZHIN, S.N.,
kand. tekhn. nauk; TAMAMSHYAN, S.G.; TRUSOVA, S.A.;
FILOGRIYEVSKAYA, Z.D.; CHINENOVA, E.G.; SHISHKINA, N.N.;
LL'IN, M.M., Easl. deyatel' nauki RSFSR, doktor biol. nauk
prof., red.; PRITYHINA, L.A., red.; ZARSHCHIKOVA, L.N.,

[Spice and aromatic plants of the U.S.S.R. and their use in the food industry] Priano-aromaticheskie rasteniia SSSR i ikh ispol'zovanie v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1963. 430 p. (MIRA 1712)

# IL'IN, M.M. Section Belies Iljin of the genus Jurinea Cass. Bot.mat.Cerb. 22:256 New section of the genus Jurinea Cass. Parabeliae Iljin sect. nova. Section Cyanoides (Korsh.) Iljin of the genus Jurinea Cass. IIbid.:265 N v species of Jurineae Cass. from Asia. Ibid.:277-284 Genus Jurisella Jaub. et Spach. Ibid.:285-287 (MIRA 17:2)

ZACAYEVSKIY, I.S., prof.; MERKUSHEV, A.V., prof.; IL'IN, M.M., assistant
TRUSOV, S.I., prof.; KOROPOV, V.M., prof.

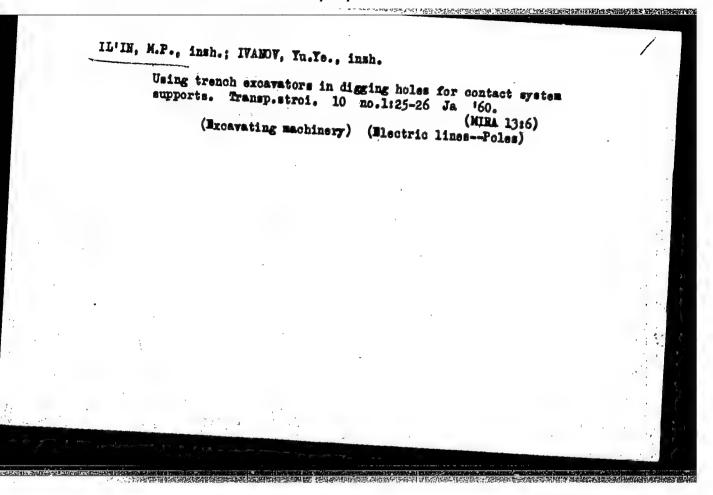
Reviews and bibliography. Veterinariia 39 no.5:85-88 My 162
(MIRA 18:1)



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BORISOVA, A.G.: ILLIN. M.M.; KLOKOV, M.V.; LINCHEVSKIY, I.A.; POBEDIMOVA, Ye.G.; SEMIDEL, G.L.; SOSKOV, Yu.D.; SOSMOVSKIY, D.I.; TAMAMSHYAN, S.G.; KHARADZE, A.L.; TSVELEV, N.N.; CHEREPAÑOV, S.K.; SHOSTAKOVSKIY, S.A.; BOEROV, Ye.G., doktor biol. nauk, prof., red. toma; SHISHKIN, B.K., red. izd. [deceased]; SMIRNOVA, A.V.,

[Tribes Cynareae and Mutisieae.] Kolena Cynareae i Mutisieae. Moskva, 1963. 653 p. (Akademiia nauk SSSR. Botanicheskii institut. Flora SSSR, vol.28). (MIRA 16:12)



IL'IN, M. P. - "On the poblem of the fat content of milk under partial nursing of calves", Trudy Buryat-Mongol. opyt.

So: U-4631, 16 Sept. 53, (Lotopis 'Zhurnal 'nykh Statey, No 24, 1949).

II.'IN, M. P.

Vakhrushev, N. S. and Il'in, M. P. - "Fattening of steers during the winter period", Trudy Buryat-Monrol. opyt. stantsii po zhivotnovodstvu, Issue 1, 1949, p. 73-64.

S0: U-4631, 16 Sept. 53, (Letopis 'zhurnal 'nykh Statey, No. 24, 1949).

ILTIN, M. S.

New upswing in Soviet rail transport. (The Railway review, Sept. 30, 1949, no. 3708, DBRE

DLC: TF1.R4

SO: Soviet Transportation and Communications, ABBibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

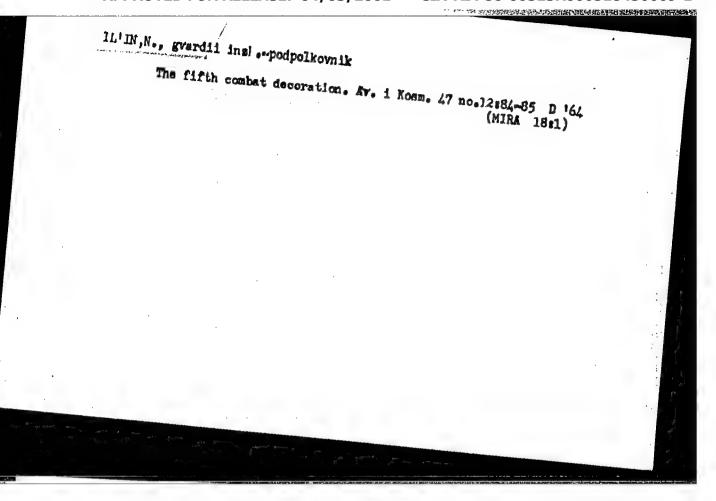
MEL'NIKOV, N.V.; SLEDZYUK, P.Ye.; ZAV'YALOV, S.S.; BUNIN, A.I.;

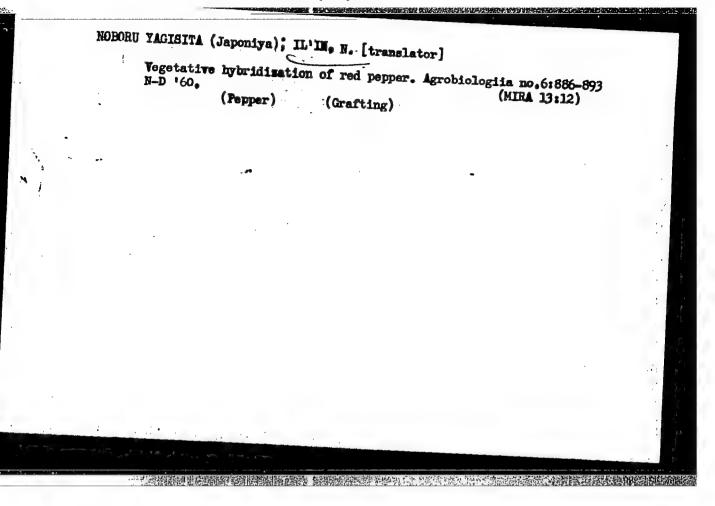
VASIL'YEV, M.V.; NOVOZHILOV, M.G.; ZURKOV, P.E.; IL'IN, M.V.;

VILESOV, G.I.; POPOV, S.I.; SANDRIGAYLO, N.F.; SHILIN, A.N.;

ZUERILOV, L.Ye.; TSIMBALENKO, L.N.; VLOKH, N.P.; OMEL'CHENKO, A.N.

Mikhail Lazarevich Rudakov, 1912-1964; an obltuary. Gor. zhur. no.9:78 S '64. (MIRA 17:12)



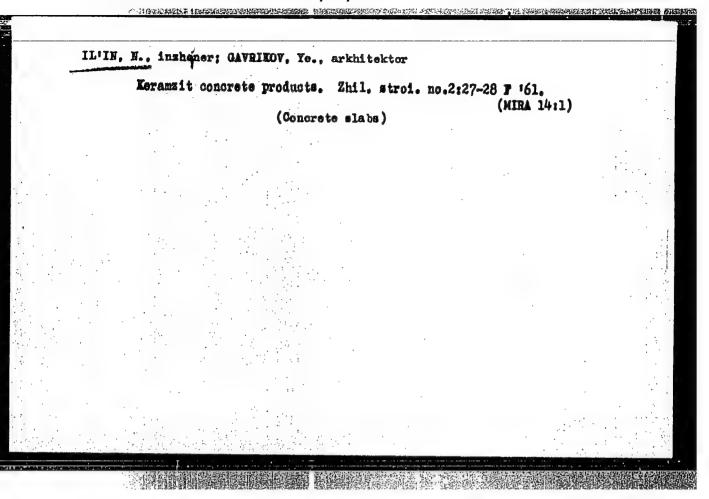


# LYUNGGREN, G. [Ljunggren, G.]; IL'IN, N. [translator]

Transformation of clover module bacteria. Agrobiologiia no.6: 814-816 N-D '62. (MIRA 16:1)

1. Rotamstedskaya opytnaya stantsiya, Otdel pochvennoy mikrobiologii, Institut mikrobiologii Korolevskogo sel'skokhosyaystvennogo kolledsha Uppsala. (Clover) (Rhisohium trifolii) (Variation (Biology))

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IL'IN, N.; YEL'FIMOVA, Ye.; FIKS, L.

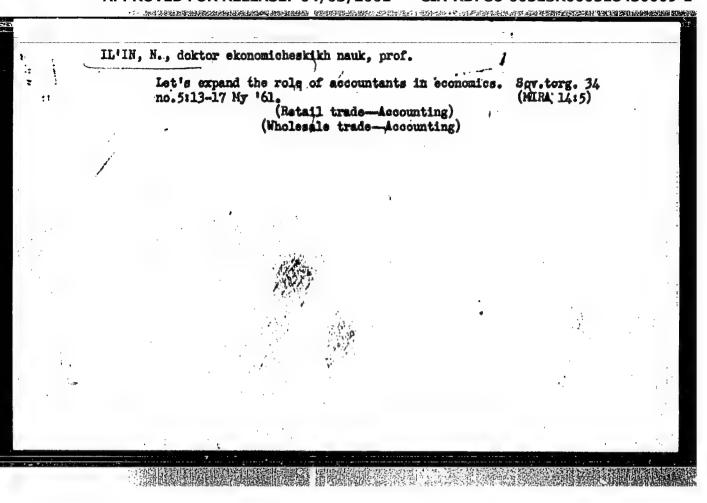
Simplify the financing of planning and surveying work. Fin. SSSR 22 no.1:73-76 Ja '61. (MIRA 14:1)

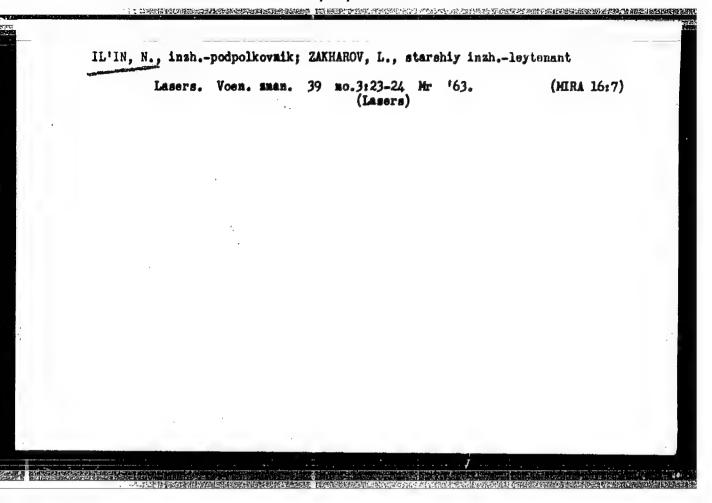
1. Nachal'nik otdela L'vovskogo otdeleniya Teploelektroproykt (for Il'in). 2. Nachal'nik otdela L'vovskoy oblastnoy kontory Stroybanka (for Yel'fimova). 3. Starshiy inshener-ekonomist Ciprobuma (for Fiks).

(Architecture—Designs and plans)
(Iwov Province—Electric power stations—Finance)

# "APPROVED FOR RELEASE: 04/03/2001

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IL'IH, H., inshener.

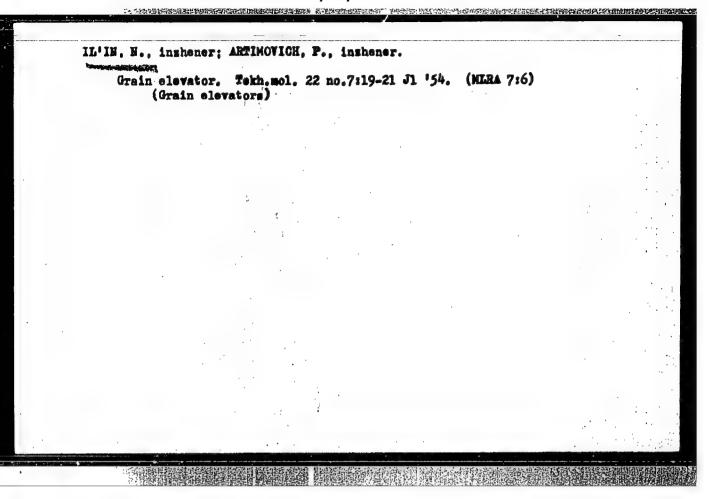
Transformer substations in elevators and flour mills. Muk.elev.prom. 20 no.4:8-9 Ap '54. (MIRA 7:7)

1. Gosudarstvennyy institut Promsernoproyekt.
 (Grain elevators) (Flour mills) (Electric substations)

OVCHINNIKOV, P., inshener; IL'IN, W., inshener; KASHCHEYEV, I., inshener.

Central control of operations and remote control of machinery in elevators. Muk.-elev.prom. 20 no.10:4-6 0 154. (MIRA 7:12)

1. Gosudarstvennyy institut Promsernoproyekt (for Kashcheyev, Ovchinnikov & Il'in) (Grain handling) (Automatic control)



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IL'IN, N., inshemer.

Lightning reds for flour mills, grain elevators and grain procurement points. Muk.-elev.prom. 22 me.2:10-12 F 156. (MIRA 9:6)

1.Gosudarstvennyy institut Frenzernoproyekt.
(Lightning protection)

ASTAKHOV, P., inshemer; OVCHINBINOV. P., inshemer; IL'IN, N., inshemer;

Elevator with automatic control. Muk.-elev.prom. 23 no.7:4-8 J1 '57.

(MERA 10:9)

1. Moskovskiy mel'nichnyy kombinat No. 4 (for Astakhov).

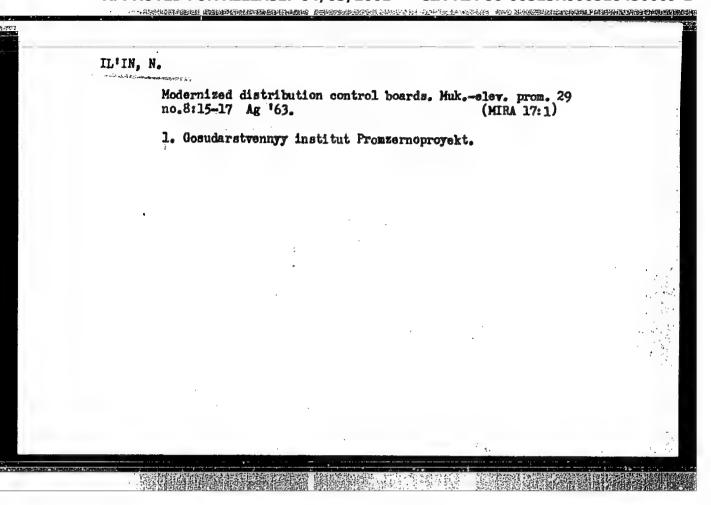
2. Promzernoproyekt (for I1'in, Ovchinnikov, Artimovich).

(Grain elevators) (Ovchinnikov, P., inshemer)

OVCHINNIKOV, P., insh.; IL'IN, N., insh.; ARTIMOVICH, P., insh.

Automatically contrelled pneumatic equipment for unleading grain from garges at the No.4 Milling Cembine in Moscew. Muk.-elev. prem. 24 no.10:4-6 0 '58. (MIRA 11:12)

1.0idrelegicheskiy institut (0I) Premsernopreyekt. (Mescew-Grain-handling machinery) (Pneumatic-tube transportation)



IL'IN, N.; MITROFANOV, N.

Aerial sniper. Kryl. rod. 15 no.11:12-13 N '64.

(MIRA 18:3)

POPKOV, V., dvazhdy Geroy Sovetskogo Soyuza, gvardii general-mayor aviatsii;
IL'IN, N. gvardii podpolkovnik

Meeting in the air. Grazhd. av. 21 no.7:10 J1 164.

(MIRA 18:4)

中的15位的形成形型 数据此处于15位的第三次的第三次的第三人称单位 ENT(m)/ENP(t)/ENP(k) ACC NR: AP6005770 IJP(a) JD/HJ SOURCE CORE: UR/0403/65/000/009/0014/0015 AUTHOR: Il'in, N. (Senior engineering methodologist of the pavilion of Metallurgy) 68 TITLE: Shown for the first time at the VINKh -- Vacuum-Helted Metals [New Exhibits at the All-Union Exposition of Achievements of the USSR National Economy SOURCE: VDNKh SSSR. Informatsionyy byulleten', no. 9, 1965, 14-15 TOPIC TAGS: refractory metal, rere metal, electron beam melting, metal rolling, vacuum furnace, arc furnace, metallurgic research, scientific research ABSTRACT: A new exhibit section has been opened in the Metallurgy Pavilion. Various tubes, rods, templates, strip, wire, foil and other products fabricated from vacuummelted refractory and rare metals are being demonstrated for the first time. The applicability and advantages of refractory and rare metals such as W, Mo, Ti, Zr, Mb, Ta, V, Re, and others, are pointed out. For example, in metalworking the replacement of ordinary steel with tungsten steels increases the machining rate tenfold, while the introduction of the carbides of W and Ti increases this rate by a factor of 200. Without the use of these metals the current advances in vacuum engineering, electric and radio engineering, radioelectronics, nuclear engineering and conquest of outer space would have been inconceivable. Ultrahigh purity of the metals is a vital factor, Card 1/2 

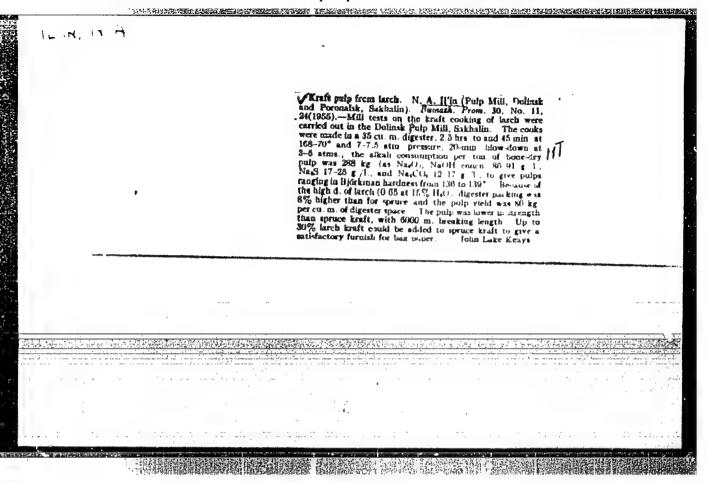
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L 50 98-60 E 11(-), - ((1), - ((6), - (-), - (7), - (7), - (7), - (7) 1(k) IJ. (c, -, -, -, ACC NRI AP6023864 JG/DJ SOURCE CODE: UR/0403/66/000/007/0013/0013 10 AUTHOR: Il'in, N. (Metallurgical engineer) ORG: none TITLE: Oxidation-free pumping of light metals SOURCE: VENKH SSSR. Informatsionnyy byulleten', no. 7, 1966, 13 TOPIC TACS: aluminum, aluminum alloy, magnesium, magnesium alloy, alloy pumping, magnetic pumping, liquid metal pumping, liquid metal pump/ EN-5M liquid metal pump | U ABSTRACT: The EN-5M magnetic pump/for pumping, conveying, and pouring liquid aluminum, magnesium, and their alloys has been developed and built at the Riga Central Design 2/ and Planning Department of Mechanization and Automation and has been put into operation at numerous plants. During conveying and casting, the liquid metal is protected from contact with air and, therefore, ingots and cast parts have an impurity content 85% lower than that of conventionally cast ingots and parts. The EN-5M pump has a capacity of 7.9 m3/hr and a pressure of 2 kg/cm2. It operates at temperatures up to 750C. Orig. art. has: 1 figure. 13 / SUBM DATE: none/ ATD PRESS: 5042 SUB CODE: Card 1/1/1000



Sulfate larch pulp. Bum.prom.31 no.3:25 Mr '56. (MLEA 9:7)

1.Starshiy inshener Glaysakhalibumproma.
(Weedpulp industry) (Iarch)

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IL'IN, N.A.; SERGEYEVA, Ye.S.; KONOVAL'CHUK, M.Ya., tekhnik

System for a defectless production of goods. Tekst. prom. 25 no.5:4-6 My '65. (MIRA 18:5)

1. Direktor Bryanskogo kamvol'nogo kombinata (for Il'in).

2. Nachal'nik otdela truda i zarabotnoy platy Bryanskogo kamvol'nogo kombinata (for Sargeyeva).

## IL'IN. N.A. Reperience of the Komintern Factory. Tekst. prom. 18 no. 7:55-56 J1 '58. 1. Direktor febriki imeni Kominterna. (Bryansk Province—Textile industry)

IL'IN, Nikolay Aleksendrovich; ABRAMOV, A.L., red.; MEMESHKINA, L.I., tekhn.red.

[Gooking of lerch pulp] Varks tselliulosy is listvennitsy. IUshno-Sekhalinek, Meuchno-tekhn.ob-vo bumashnoi i derevo-obrabatyvaiushchei promyshl., 1959. 38 p.

(Woodpulp) (Lerch)

16'IN, N.A.

SMCRODINTSEV, A. A.; CHALKINA, O. M.; BUROV, S. A.; ILYIN, N. A.

Evaluation of the epidemiological effectiveness of live influensa vaccine during the type A2 and B epidemics of 1959. J. hyg. epidem., Praha 5 no.1160-68. 61.

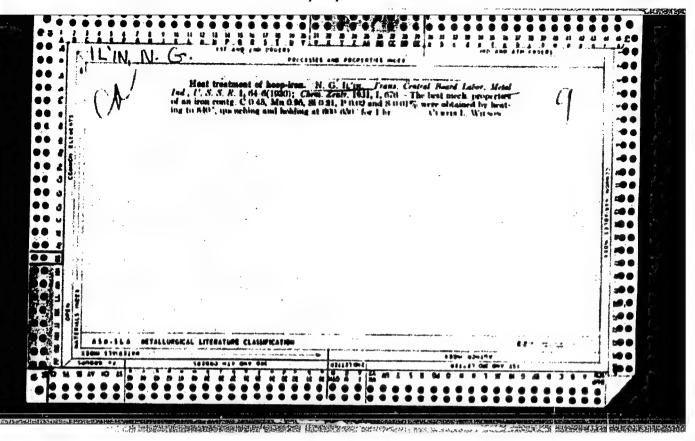
1. Department of Virology, Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R., Leningrad.

(INFLUENZA immuno1)

SMORODINISEV, A.A.; CHALKINA, O.M.; BUROV, S.A.; IL'IN, N.A.

Increasing the immunogenic activity of a live vaccine against influensa by triple immunisation of susceptible people. Vop. virus. 7 no.6:683-688 N-D 162. (MIRA 16:4)

1. Institut eksperimental noy meditary AMN SSSR, Leningrad. (INFLUENZA PREVERTIVE INCCULATION)



IL'IH. H.Q.; MATTUSHIH, R.W.; KHAKIMOV, M.Q.; PETROVA, Ye.A., redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Water flushing in oil well drilling] Opyt bureniia skvashin s promyvkoi vodoi. Moskva, Gos. nauchno-tekhnicheskoe isd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 23 p. (MIRA 8:3) (Oil well drilling)

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AID P - 554

Subject : USSR/Mining

Card 1/1 Pub. 78 - 20/29

Author : Il'in, N. G.

Title : Our experience in the training of drillers brigades

in rapid drilling methods

Periodical: Neft. Khoz., v. 32, #7, 78-82, J1 1954

Abstract : Description of the organization in practical training

of technicians and skilled workers at various oil fields, particularly the "Tuymazburneft" (Tuymazy oil field), and analysis of the results of training during 1952 and 1953 with consequent recommendations for fur-

ther improvements in drilling work.

Institution: TsIMTneft (Central Scientific Research Institute for

Mechanization and Labor Organization in the Petroleum

Industry)

Submitted : No date

93-4-2/20

AUTHOR:

Il'in, N.G.

TITLE:

Should Drill Pipe with Welded Joints be Used as Casing (O tselesoobraznosti primeneniya dlya krepleniya skvazhin buril'nykh trub s privarennymi poluzamkami).

PERIODICAL:

Neftyanoye Khozyaystvo, 1957, Nr 4, pp. 5-6 (USSR)

ABSTRACT:

In oil drilling large quantities of metal are used (at a considerable cost to the driller) for casing and drill pipe. The author argues that for the sake of economy, in turbodrilling one should use welded-joint drill pipe, which could be left in the bore hole and used as casing. The Tuymazyburneft Trust reduced casing consumption from 53.6 in 1951, to 48.8 kg/m in 1955, that of drilling pipe from 10 kg/m to 8.8 kg/m. Its total 1955 metal consumption for casing was 19,830 tons, for drilling pipe 3,567 tons. The expansion of turbodrilling called for the production of drill pipe with a uniform inside diameter along its entire length and in the joints. Some ten years ago, engineer L.G. Alekhin proposed, in view of the uniformity of this internal diameter, that drill pipe be used

Card 1/2

93-4-2/20

Should Drill Pipe with Welded Joints be Used as Casing. (Contd).

as casing. His idea failed to find wider application, because the special drill pipe which had been designed for turbodrilling proved inadequate, since the segments had joints welded onto their ends. Practical experience proved that this type of drilling pipe was not very strong and that only one or two bore holes could be efficiently drilled, with breaks and other failures occurring during subsequent operations. Therefore, in 1956 production of this type of drilling pipe was discontinued. The author states that considerable savings in metal, time, and transportation costs could be realized by leaving the drill pipe used for drilling a single bore hole in the well and making it serve as well casing after withdrawal of the drilling tool (turbodrill). The Soviet Ministry of Petroleum is urged, therefore, to take steps making the above-mentioned drill pipe with welded joints again available to drillers.

Card 2/2

AVAILABLE: Library of Congress.

notograph, p. 78.	(VVF, No 1, 1959)	NOT FOR PUBLICATION
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VLADIMIROV, K.A.; GAYVORONSKIY, A.A.; YUZBASHEV, G.S.; BAYKOV, A.M.; SHANOVICH, L.P.; LOGVINOV, I.I.; IL'IN, N.G.; SAPIULLIN, M.N.

Effect of a cement ring on the capacity of casing strings to resist collapsing loads. Neft. khoz. 42 no.6:19-24 Je '64. (MIRA 17:8)

GUMEROV, R.Kh.; BUKHTEYEV, P.P.; SPIVAK, A.I.; IL'IN, N.G.

Analyzing methods for using drilling lines whose length is greater than that of the line string-up in enterorises of the Tuymazy Oil Well Drilling Trust. Burenie no.2:35-37 '65.

(MIRA 18:5)

1. Trest "Tuymazaburneft'" i Ufimskiy neftyanoy institut.

IL'IN, Nikolay Grigor'yevich; USPENSKIY, N.M., red.; KOROLEV, A.V., tekhm. red.

[Infrared rays] Infrakrasnye luchi. Hoskva, Izd-vo DOSAAF, 1961. 93 p.

(Infrared rays) (Military engineering)

IL'IN; Nikolay Grigor'yevich; RYABKOV, Valentin Pedorovich; GRIGOR'YEVA, A.I., red.; MIKHLINA, L.T., tekhn. red.

> [Radar in antiaircraft defense] Radiolokatsionnye sredstva protivovozdushnoi oborony. Moskva, Izd-vo DOSAAF, 1962. 146 p. (MIRA 16:4)

(Radar)

Mostly Index Russian accessions

16/N

USSR / Farm Animals. Small Hornod Stocks

Abs Jour: Rof Zhur-Biol., No 23, 1968, 105647.

: Il'yin, N. I., Isakin, M. P. Not 61von. Author

Inst

: Experience in the Organization of Fine-Seel Titlo

Shoop Brooding in Transbaikalia.

Orig Pub: Ovtsovodstvo, 1958, No 3, 8-16.

Abstract: In the course of different years, the rems of

the Fine-wool and Prococe breeds were brought into the Sovkhoz imeni Karl Marx of the Chitinskaya Oblast. The hybrids derived from absorption crossbrooding with Coarse-wool ewes and the rams themselves were poorly acclimatized and had a poor productivity. During the last years, the rams of the Groznyy breed were imported, and mated to ewes of the Altay origin for a single

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met. no.6177-80 '60. (MIRA 13:8)

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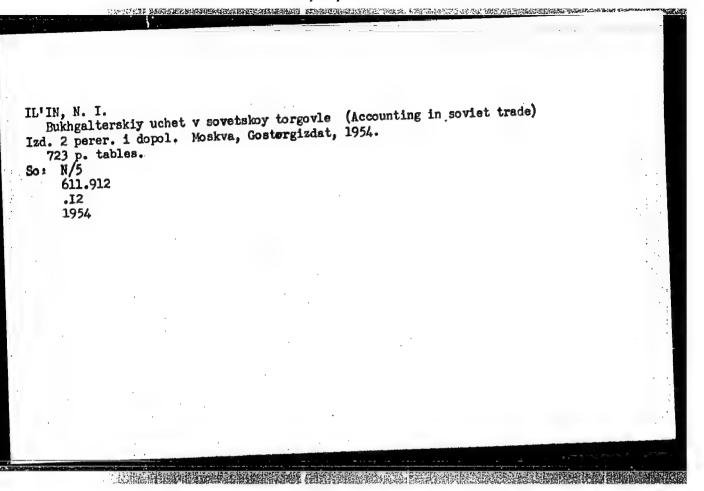
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Accounting is torgovoi lit problems. M	Soviet trade; -ry, 1954. 723 Foskva, Gos. isd-	textbookInd p. (55-23217) - -vo torgovoi 1	Sbornik it-ry, 1954. 24	sadach. Col	lection of	
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[Acceunting in Seviet commerce] Bukhalterskii uchet v sevetskei tergevle. Ind.2.; perer. Neskva, Gestergisdat, 1956. 448 p. (Acceunting)

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IL'IN, Nikolay Ivanovich Name:

Bookkeeping calculation in Soviet trade Dissertation:

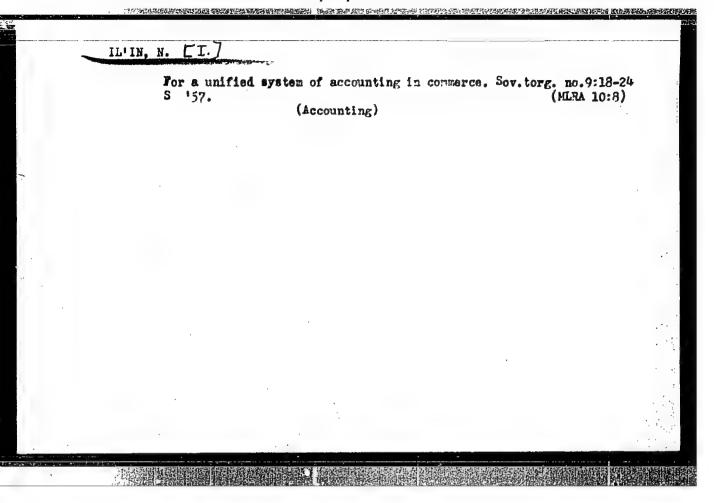
> Doc Economic Sci Degree:

[not indicated] Affiliation:

30 Nov 56, Council of Moscow Inst of National Economy imeni Plekhanov Defense Date, Place:

9 Jul 57 Certification Date:

Source: BMV0 18/57



了。只是在我们还有种的**生活的双回 帕克斯·克里斯·尔勒·**西巴拉·希腊斯·西拉 "你是在了一个,你是不是不是一个,不是一个, min, n. CI) For the introduction of a uniform account plan and accounting methodology in Soviet trade. Bukhg. uchet 15 no.2:12-18 F \*58.

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# IL'IN, N.I., CHURAYEV, N.V.

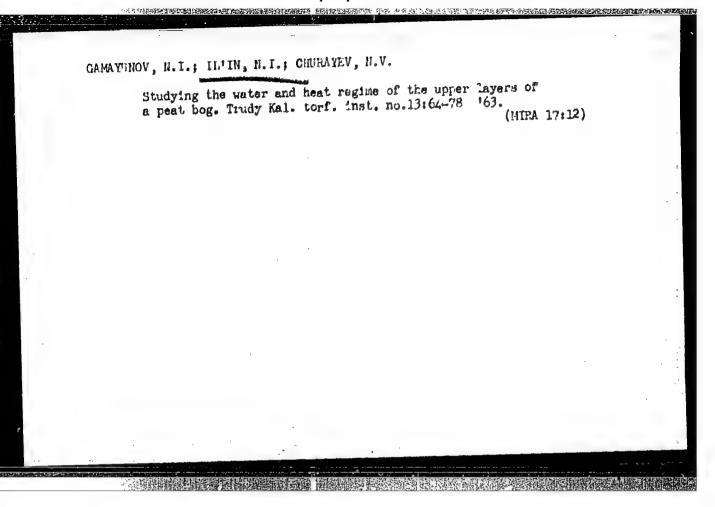
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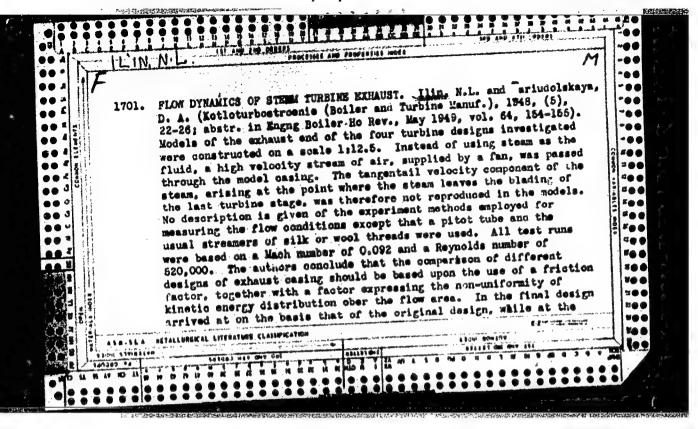
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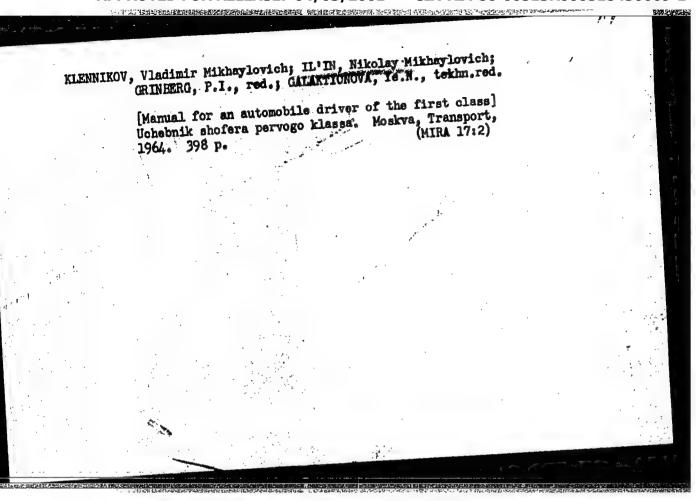
(Motor vehicles—Electric equipment)
(Electric laboratories)

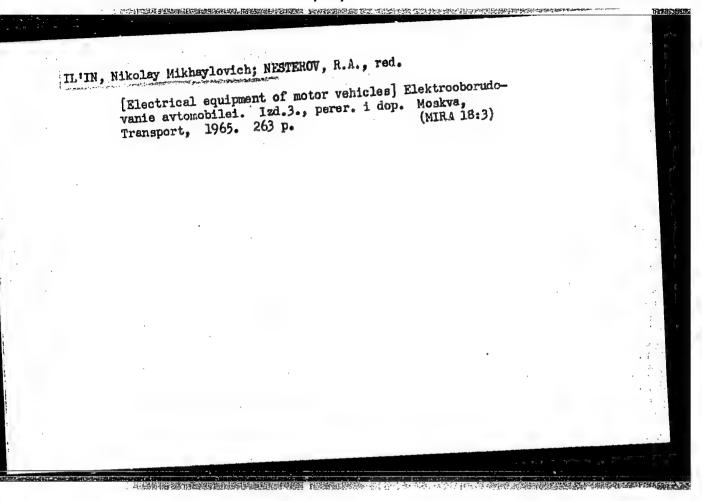
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(Motor vehicles-Electric equipment)





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Phenology of blood-sucking mosquitoes near Kaluga. Med.paraz. i paraz. bol. 28 no.4:487-488 Jl-Ag 159. (MIRA 12:12)

1. Iz Kaluzhskoy oblastuoy sanitarno-epidemiologicheskoy stantsii. (MOSQUITOES)

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7. Abramov-design automatic mut-threading machine. Sel(khozmashina no. 1. 1953.

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**K-8** 

USSR/Optics - X-Rays

: Referat Zhur - Fizika, No 5, 1957, 13150

Author

Abs Jour

: Borovskiy, I.B., Il'in, M.P.

Inst Title : New Method for X-ray Spectral Investigation of the Chemical

Composition in a Microvolume of Alloy.

Orig Pub

: Issledovaniya po zharoprochnune splavam. M., AN SSSR, 1956,

25-32

Abstract

: A method has been developed that makes possible quantitatiwe analysis of the chemical composition of a substance in volumes on the order of 10 cubic microns. In a setup prodiced by the authors, it is possible to make an analysis for elements from 26 Fe to 42 Mo and from 72 Hf to 92 U. The source of radiation is a micro-focus X-ray tube, operating at 30 -- 50 kw and 0.1 -- 1.0 microamperes. The electron beam, obtained from a corresponding EM-4 electronograph apparatus, is focused on the investigated polished

Card 1/3

K-8

USSR/Optics - X-Rays
APPROVED FOR RELEASE: 04/03/2001 13150IA-RDP86-00513R00051843000

Abs Jour : Referat Zhur - Fizika, 1/03/2001

section. The use of rather large specific loads became possible, for at very small dimensions of the focusing spot (3microns), the radial heat transfer begins to play a substantial role. This has insured a sufficient radiation.intensity. The polished section can be moved in its own plane, making it possible to analyze any point on it under observation in a metallographic microscope, mounted in the setup. The analysis is by means of a short-wave spectrograph with a quartz crystal, bent in a radius of 300 mm, using reflection from the (1010) or (1340) planes. The transmission method, described by Du Mond is used, and gives a gain in intensity by 2 -- 3 orders of magnitude over the direct method. The spectrum is registered by a Geiger type counter RM-4 whose rate of count can be determined simultaneously with the scaling instrument PS-64 and from the direct-reading meter of the integrating circuit. In addition, the intensity of the spectrum can be written

Card 2/3

TL'IN, N.P.

K-8

Category : USSR/Optics - X Rays

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5275

: Borovskiy, I.B., Iltin, N.P.

: Institute of Metallurgy, Academy of Sciences USSR : New Methods for the Investigation of the Chemical Composition in the Author Inst

Micro-Volume of an Alloy. Title

Orig Pub : Dokl. AN SSSR, 1956, 106, No 4, 655-657

Abstract : A new method was developed for investigating the chemical composition on a polished section. An electron beam, focused by magnetic lenses, excites characteristic x-rays in a volume of the section approximately 10 cubic microns in size. The tube voltager is 30-50 kv, the current reaches 1 microampere. The load on the polished-section anode is on the average 1 kv/mm2. The intensity is recorded with the aid of the unit of the URS-50-I apparatus to record the intensity curve. To plot the spectrum at a given "point" on the polished section one employs the reverse method with transmitted radiation. The motion of the tube is synchronized with the motion of the counter. The instrument permits also to plot the curve of the variation of the intensity of a given line over the polished section, for a fixed position of the tube

: 1/2 Card

K-8

Category : UBSR/Optics - I Rays

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5275

and counter, by displacing the specimen. Curves are given for the intensity distributions of the Nikola and WL and WL lines over the points of the multi-component allow. The analysis of the chemical composition at the "point" can be carried out with a sensitivity of 0.1%, tion at the "point" can be carried out with a sensitivity of 0.1%, to corresponding to 10-13 grams of the element at the "point." The relative accuracy of the quantitative determinations is 2 -- 5%.

Card : 2/2

Il'in N.A.

137-58-2-4432

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 305 (USSR)

Borovskiy, I.B., Deyev, A.N., Il'in, N.P. AUTHORS:

Investigating the Chemical Composition of an Alloy Microvolume TITLE:

by X-ray Spectroscopy (Rentgeno-spektral'nyy metod issledo-

vaniya khimicheskogo sostava v mikroob"yeme splava)

Tr. In-ta metallurgii AN SSSR, 1957, Nr 2, pp 181-187 PERIODICAL:

A description is given of a special RSASh-2 X-ray machine which makes it possible to determine the chemical composition ABSTRACT:

of an alloy on volumes of the order of magnitude of a few cubic microns for the elements ranging in atomic number from 26 (Fe) to 45 (Rh) and from 72 (Hf) to 92 (V). From the continuous travel of the alloy microsection under electron-beam bombardment and from the simultaneous recording being made of the intensity of the characteristic-spectrum line for the element

under study it is possible to determine the element's distribution in the chosen direction on the microsection. The machine M.N.

was used to study the diffusion layer of Cu-Zn. 2. I-ray spectrescopy-Appli-

1. Alloys Chemical properties Card 1/1 cations

IL'IN, N.P.

Borovskiy, I.B., Il'in, N.P., Loseva, L.Ye.,

48-10-13/20

AUTHOR:

Marchukova, I.D., Deyev, A.N.

TITLE

X-Ray Spectral Investigations of the Chemical Composition in Microvolumes of Alloys (Rentgenospektral'nyye issledovaniya

khimicheskogo sostava v mikroob yemakh splavov)

PERIODICAL:

Izvestiya AM SSSR Seriya Fizioheskaya, 1957, Vol.21, Nr 10,

pp. 1415-1423 (USSR)

ABSTRACT:

The method described here was at the same time developed by Kasten in France (since 1951) and also in the USSR. The characteristic feature of the method is the following: The metallographical microsection surface to be investigated is inserted into the special . X-ray tube instead of the anode. The anode "mirror" is the ground surface the microstructure of which can be observed in the metal microscope which is mounted in the tube. By means of microscrews the sample can be displaced in the anode plane. At the Institute for Metallurgy the RSASh-2 unit, an X-ray spectrograph for the analysis of microsection surface elements of from Fe<sup>20</sup> to Mo<sup>42</sup> and from H:72 to U92 was worked out. Besides, the model for the RSASh-ZD unit is already completed, by means of which it is possible to investi-gate the elements from Fe<sup>20</sup> up to and including Mg<sup>12</sup>. The results

Card 1/2

X-Ray Spectral Investigations of the Chemical Composition in Microvolumes of Alloys

obtained by several investigations carried out by means of this device are discussed here. It is shown that the following problems can be solved quickly and reliably by means of this method: Analysis of the phase composition of complexly alloyed alloys, investigation of the degree of de-liquation in alloys, investigation of the order of distribution of alloy additions and their re-distribution during aging, deformation, heat treatment, investigation of diffusion— and other intermediate layers, of granular boundaries, and of the processes taking place in them. There are 6 figures and 2 tables.

ASSOCIATION: Laboratory for Methods of Physical Research at the Institute for

Metallurgy imeni A.A.Baykov AS USSR (Laboratoriya fizioheskikh metodov issledovaniya instituta metallurgi im.A.A.Baykova AN SSSR)

AVAILABLE: Library of Congress

Card 2/2

IL'IN N.P.

AUTHORS:

Borovskiy, I. B., Professor, Doctor of Physical and 32-10-25/32

Mathematical Sciences, Ilin, N. r., Candidate of

Technical Sciences

TITLE:

The Method of Radiospectroscopic Investigation of Local Chemical Composition (Rentgenospektral nyy metod issledovaniya

lokalinogo khimicheskogo sostava)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 10,

pp 1234-1242 (USSR)

ABSTRACT:

In the introduction the development of this method is described the purpose of which, in its newest form, is to carry out radiospectral investigations with respect to the content of various elements at various points of the sample and / or in a rew of successive points while the object table (together with the sample) is shifted uniformly under the

electron beam. A certain line of the element to be investigated

is automatically recorded on the diagram of the selfrecording potentiometer, and possible modifications in the

concentration of the element are on this occasion made apparent. By this method and with the help of the corresponding apparatus, the analyses of minerals, slags, and ores, which contain the elements of from magnesium (12) to uranium (92)

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The Method of Radiospectroscopic Investigation of Local 32-10-25/32 Chemical Composition

are investigated. Two systems used for this purpose are described: "PCAU -2" which is destined to be used for a range from 0.7 to 1.0 A (corresponding to the atoms Nr 26-42 according to the k-series, and 72-92 according to the L-series), and the second system "PCAW -3A", which is destined to be used for the so-called "vacuum domain" of the X-ray spectrum (1.5 - 10 %). The first system consists of the following parts: a microfocus X-ray tube, an X-ray spectrograph, a feeder block, and a recording block, which are described in detail. In the chapter "Analysis of uniformity" it is said that it is the aim of the method to determine the uniformity of the distribution of one of the elements without having to investigate the entire microstructure. In the chapter "Analysis of Phase Composition" an example of determining concentration in a nickel solution with microcomponents is described, into which rhenium was additionally introduced as a component. This resulted in the sorting out of a new phase which has a rich content of rhenion, tungsten, and molybdenum. In the chapter: "Analysis of welded or soldered Seams" it is said that, when copper is melted on to cold steel, a layer of 15-40 m is formed, which can

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The Method of Radiospectroscopic Investigation of Local 32-10-25/32 Chemical Composition

be determined metallographically. When using the system "PCAW -2" it was possible for the first time to investigate the formation of this layer, which is connected with the separation of certain elements. In the chapter "Investigation of diffusion Layers" the diffusion properties of the metals are described on the basis of two samples: copper+nickel and copper+zinc. In the first case it was possible, by employing the radiospectral method, to find out that the components formed an uninterrupted series of solid solutions, on which occasion an uninterrupted modification of concentration was found to take place on the nickel line; in the second case two phases of constant composition were formed in the diffusion layer, and on the transition boundary to the pure metal a sudden decrease of the failing component was found to take place. In the conclusion it is said that the following problems can be solved by this method: The phase analysis of multicomponent alloys; the investigation of the degree of homogeneity of the solutions; investigation of the topographical distribution of the alloying admixtures and their transformation in the

Card 3/4